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<u>L4</u>	L3 and antisense	2	<u>L4</u>
<u>L3</u>	homogentisate adj dioxygenase and transformation and plant	2	<u>L3</u>
<u>L2</u>	homogentisate adj dioxygenase	0	<u>L2</u>
<u>L1</u>	homogentisate adj dioxygenase and transformation	0	<u>L1</u>

END OF SEARCH HISTORY

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STN Columbus \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

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=> s homogentisate(w)dioxygenase and antisense

L1 2 HOMOGENTISATE(W) DIOXYGENASE AND ANTISENSE

=> d 11 1-2 ti

L1 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

TI Plant genes encoding methyltransferase products involved in tocopherol biosynthesis and their use in transforming plants for modified tocopherol composition

L1 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

TI Sense and \*\*\*antisense\*\*\* expression cassettes for dioxygenases and their use in increasing the tocopherol content of food plants

=> d 11 1-2 ibib ab

L1 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:154561 CAPLUS

DOCUMENT NUMBER: 138:200982

TITLE: Plant genes encoding methyltransferase products involved in tocopherol biosynthesis and their use in transforming plants for modified tocopherol composition

INVENTOR(S): Van Eenennaam, Alison; Valentin, Henry E.; Karunananada, Balasulajini; Hao, Ming; Aasen, Eric; Levering, Charlene

PATENT ASSIGNEE(S): Monsanto Technology LLC, USA

SOURCE: PCT Int. Appl., 218 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003016482	A2	20030227	WO 2002-US26047	20020816
WO 2003016482	A3	20040219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003154513	A1	20030814	US 2002-219810	20020816
EP 1427832	A2	20040616	EP 2002-766004	20020816
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			US 2001-312758P	P 20010817
			WO 2002-US26047	W 20020816

AB The present invention relates to genes assocd. with the tocopherol biosynthesis pathway. More particularly, the present invention provides and includes nucleic acid mols., proteins, and antibodies assocd. with genes that encode polypeptides that have methyltransferase activity in the synthesis of tocopherols, such as .gamma.-tocopherol methyltransferase and 2-methyl-6-phytylplastoquinol/2-methyl-6-solanylplastoquinol-9 methyltransferase. .gamma.-Tocopherol methyltransferase genes are provided from *Arabidopsis thaliana*, *Oryza sativa*, *Zea mays*, *Gossypium hirsutum*, *Cuphea pulcherrima*, *Brassica napus*, *Lycopersicon esculentum*, *Glycine max*, *Tagetes erecta*, and *Lilium asiaticum*. Homologs previously identified as .DELTA.24-sterol C-methyltransferase (EC 2.1.1.41) are also identified in cyanobacteria (*Anabaena*, *Synechocystis*, *Nostoc punctiforme*) and *Prochlorococcus marinus*. The present invention also provides methods for utilizing such agents, for example in gene isolation, gene anal. and the prodn. of transgenic plants. Moreover, the present invention includes transgenic plants modified to express the aforementioned polypeptides. In addn., the present invention includes methods for the prodn. of products from the tocopherol biosynthesis pathway.

L1 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2001:114633 CAPLUS  
 DOCUMENT NUMBER: 134:160350  
 TITLE: Sense and \*\*\*antisense\*\*\* expression cassettes for dioxygenases and their use in increasing the tocopherol content of food plants  
 INVENTOR(S): Ebneth, Marcus; Herbers, Karin; Geiger, Michael; Saalbach, Isolde  
 PATENT ASSIGNEE(S): Sungene G.m.b.H. & Co. K.-G.a.A., Germany  
 SOURCE: Ger. Offen., 28 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 19937957	A1	20010215	DE 1999-19937957	19990811
CA 2381316	AA	20010222	CA 2000-2381316	20000810
WO 2001012827	A2	20010222	WO 2000-EP7807	20000810
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000013127	A	20020423	BR 2000-13127	20000810
EP 1200598	A2	20020502	EP 2000-951492	20000810
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRIORITY APPLN. INFO.:			DE 1999-19937957	A 19990811
			WO 2000-EP7807	W 20000810

AB Expression cassettes using strong plant promoters are described for use in the expression of 4-hydroxyphenylpyruvate dioxygenase genes in plants.  
 Strong expression of this gene, coupled with \*\*\*antisense\*\*\* inhibition of expression of the endogenous \*\*\*homogentisate\*\*\* \*\*\*dioxygenase\*\*\* gene can be used to enlarge intracellular pools of homogentisate and thereby increase levels of tocopherol biosynthesis. The 4-hydroxyphenylpyruvate dioxygenase gene of *Streptomyces avermitilis* was codon optimized for expression in *Brassica napus* and a partial sequence for \*\*\*homogentisate\*\*\* \*\*\*dioxygenase\*\*\* was cloned from *B. napus* by PCR. These were cloned into expression cassettes using the 35S or legumin B promoters.

=> s homogentisate(w) dioxygenase and transform?  
 L2 1 HOMOGENTISATE(W) DIOXYGENASE AND TRANSFORM?

=> d l2 1 ibbi ab  
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ALL -----	BIB, AB, IND, RE
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ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms  
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
containing hit terms  
HITRN ----- HIT RN and its text modification  
HITSTR ----- HIT RN, its text modification, its CA index name, and  
its structure diagram  
HITSEQ ----- HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEQ fields  
FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
its structure diagram  
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
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L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2003:154561 CAPLUS  
DOCUMENT NUMBER: 138:200982  
TITLE: Plant genes encoding methyltransferase products  
involved in tocopherol biosynthesis and their use in  
\*\*\*transforming\*\*\* plants for modified tocopherol  
composition  
INVENTOR(S): Van Eenennaam, Alison; Valentin, Henry E.;  
Karunanandaa, Balasulojini; Hao, Ming; Aasen, Eric;  
Levering, Charlene  
PATENT ASSIGNEE(S): Monsanto Technology LLC, USA  
SOURCE: PCT Int. Appl., 218 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003016482	A2	20030227	WO 2002-US26047	20020816
WO 2003016482	A3	20040219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003154513	A1	20030814	US 2002-219810	20020816
EP 1427832	A2	20040616	EP 2002-766004	20020816
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			US 2001-312758P	P 20010817
			WO 2002-US26047	W 20020816

=> s homogentisate(w) dioxygenase and inhibition

L3 4 HOMOGENTISATE(W) DIOXYGENASE AND INHIBITION

=> d 13 1-4 ti

L3 ANSWER 1 OF 4 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI Alkaptonuria, Ochronosis, and Ochronotic Arthropathy.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

TI Alkaptonuria - a nearly forgotten paradigm of a metabolic disease

L3 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

TI Sense and antisense expression cassettes for dioxygenases and their use in  
increasing the tocopherol content of food plants

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

TI Affinity chromatography of homogentisate-1,2-dioxygenase from Aspergillus  
niger

=> s hgd and antisense

L4 3 HGD AND ANTISENSE

=> d 14 1-3 ti

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

TI Human tissue-specific housekeeping genes identified by expression  
profiling

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

TI Genes that are differentially expressed during erythropoiesis and their  
diagnostic and therapeutic uses

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Generation of transgenic plants with enhanced tocopherol concentrations by cloning microbial gene tyrA

=> d 14 3 ibib ab

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2002:868650 CAPLUS  
DOCUMENT NUMBER: 137:364394  
TITLE: Generation of transgenic plants with enhanced tocopherol concentrations by cloning microbial gene tyrA  
INVENTOR(S): Valentin, Henry E.; Mitsky, Timothy A.  
PATENT ASSIGNEE(S): Monsanto Technology LLC, USA  
SOURCE: PCT Int. Appl., 206 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002089561	A1	20021114	WO 2002-US13898	20020503
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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CA 2443865	AA	20021114	CA 2002-2443865	20020503
EP 1392106	A1	20040303	EP 2002-726831	20020503
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002009483	A	20040706	BR 2002-9483	20020503
JP 2004533244	T2	20041104	JP 2002-586714	20020503
PRIORITY APPLN. INFO.:			US 2001-289527P	P 20010509
			WO 2002-US13898	W 20020503

AB The present invention is in the field of plant genetics and biochem. More specifically, the invention relates to genes assocd. with the tocopherol biosynthesis pathway. The present invention provides and includes nucleic acid mols., proteins, and antibodies assocd. with the genes of the tocopherol biosynthesis pathway. The present invention also provides methods for utilizing such agents, for example in gene isolation, gene anal. and the prodn. of transgenic plants. Moreover, the present invention includes transgenic plants modified to express proteins assocd. with the tocopherol pathway. In addn., the present invention includes methods for the prodn. of products from the tocopherol biosynthesis pathway. Thus, *Arabidopsis thaliana* transformed with gene *tyrA* and other tocopherol biosynthesis genes produced significantly higher levels of tocotrienols and tocopherols when compared to the untransformed plant.

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